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AN EVALUATION OF INTEGRATED WASTELAND DEVELOPMENT PROJECT DISTRICT FEROZABAD UTTAR PRADESH

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PREFACE

Watershed Management is a multi-pronged approach for the overall development of rainfed areas. It comprises of not only soil and water conservation but also suggests various alternative means for income generation. Through these, it aims at self-sufficiency of rural areas. In order to realize this goal, a synergistic approach is essential. Adoption of sustainable methods for the conservation of soil and water, mobilization of people for participating in planning and implementation of the watershed projects, capacity building and community organization, coordination between different developmental agencies, viz. Central and State Governments, Non-Governmental Organizations, other private agencies, etc. and a viable extension wing, all these aspects form the anchor of any watershed project. Essence of unified participatory approach would definitely transform the grey areas into green, which is the index of a successful watershed programme.

The Ministry of Rural Areas and Employment, Department of Watershed Development sponsored this evaluation study to be conducted by the author at the Giri Institute of Development Studies, Lucknow. I do have an opportunity to express my gratitude to Mr. Halim Khan, Secretary, Department of Integrated Wasteland Development and Water Resources, Lucknow for providing us the opportunity to conduct this evaluation. I am also thankful to Mr. R.S. Pande, Addl. Director, Department of Integrated Wasteland Development, Lucknow, for extending necessary support during the study. Mr. Pande has been very helpful to me as he spared his valuable time to discuss the various issues related with the study despite his busy work schedule, as and when I approached to him. I am obliged to the officials of the Department of Soil Conservation, Etawah, particularly to Mr. Pankaj Tripathi, Dy. Director, Extension, Etawah, for extending necessary cooperation during the field survey and study period.

I express my profound obligation and gratitude to Prof. G.P. Mishra, Director, Giri Institute of Development Studies, Lucknow, who not only encouraged me to work on this evaluation study but also spared his valuable time to guide me despite his busy schedule. Prof. Mishra has always been a source of academic inspiration to me and in completion of this evaluation study, his contribution has been too vital to be expressed in just few words.

I am also thankful to Mr. Manoharan, K. for word processing the manuscript carefully and efficiently. My thanks are due to Mr. R.S. Bisht for maintaining official records and to Mr. Deepak Sharma for providing his valuable time for footnoting of the photoplates.

DR. R.C. TYAGI

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Lucknow

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AN EVALUATION OF INTEGRATED WASTELAND DEVELOPMENT PROJECT – DISTRICT FERROZABAD

1. Introduction

The watershed is a manageable hydrological unit that makes a harmonious use of the prevailing climate, soil, water, locally available material and human resources towards stepping up crop yields. The watershed approach provides the ideal means for Integrated Wasteland Development Programme. It involves the exploration and development of the complex inter-relationship between the watershed resources and population of the region and has opened up new vistas in agricultural development and helped in improving and stabilizing crop production. Watershed is a physical, economic and social system, which has a wide-ranging effect on the lives of the people. Every piece of land is a part of some watershed and people and land are the focal points for all the watershed activities. People and nature are both part of a whole. The degradation of environment is basically attributed to the increasing biotic pressure on the fragile eco-systems in the absence of adequate investment and appropriate management practices to augment and conserve the natural resources.

The sustained productivity of food, fuel, fodder, fibre, fruit and timber can be ensured by judicious and effective management of soil, water and vegetation. Now-a-days watershed management is coming up as an integrated approach for overall development of an area, in terms of socio-political and economic development. Different developmental agencies, viz. Governmental, non-governmental and private are involved in the planning, execution, monitoring and evaluation of watershed activities in a vast

acreage of land. In the light of these statements, District Rural Development Agency (DRDA), Ferozabad, prepared and submitted a proposal to Government of India in the year 1996 for the financial assistance. This project was sanctioned in the year 1996-97. The proposal was approved for the implementation of Integrated Wasteland Development for Watershed Development Programme in District Ferozabad of Uttar Pradesh, at a total cost of Rs.4,59,16,000/- (Rupees Four crores fifty-nine lakhs and sixteen thousand only) for the treatment of the total area of 11479 ha. of the district Ferozabad.

Out of this total amount of Rs.458.16 lakhs, Rs.200.53 lakhs had been sanctioned in three instalments. The first instalment of Rs.68,87,000/- (Rupees Sixty Eight Lakhs Eighty Seven thousand only) was cleared on 30th May 1996. Then, second instalment of Rs.40,63,000/- (Rupees Forty Lakhs Sixty Three Thousand) was cleared on 11th July 2000 and third instalment of Rs.91,03,000/- (Rupees Ninety One Lakhs and Three Thousand) was sanctioned on 20th March 2001. As a first instalment, 15 per cent of the total project cost had released to the Chairman, District Rural Development Agency (DRDA), Ferozabad District, Uttar Pradesh. Due to certain reasons and procedural delay, second and third instalments were released a bit late to the DRDA, Ferozabad. This amount was sanctioned and released along with certain norms and directive laid by Ministry of Rural Development, Government of India. After the completion of project time, i.e. 1996-97 to 1999-2000, Government realizes to evaluate the work executed so far and expenditure had been made. The Giri Institute of Development Studies, Lucknow has been selected by the Department of Land Development and Water Resource, Ministry of Rural Development, Government of Uttar Pradesh, for conducting an evaluation of executed work of the project in District Ferozabad.

2. Methodology

The evaluation report of the Integrated Wasteland Development Project for District Ferozabad has been prepared mainly on the basis of intensive field survey. A deep enquiry has been made by us regarding the Watershed Development Team, Watershed Development Association, Community Organization, Users Group, Self-Help Groups, Women Groups and their participation in the execution of project work. The selection of villages were made randomly and have been checked thoroughly. Some of the Peripheral Bund (PB), Marginal Bund (MB), Contour Bund (CB) and Check Dam (CD) were checked carefully at the concerning watersheds and villages, which were executed by the Project Implementing Agency (PIA).

The vital photographs of the Peripheral Bund (PB)/Marginal Bund(MB), Contour Bund (CB), Check Dam (CD), Ponds, Check roads and other completed work under the Community Development Work, were taken and placed in this report. The evaluator personally met with the President, Treasurer and other members of the Self-Help Groups (SHG) at the concerning villages and enquired about the progress of the Groups and checked their accounts, passbooks and proceeding registers. All the relevant informations regarding the execution of Watershed Development work has been gathered from Bhoomi Sanrakshan Unit and Adhikaris (BSA) of the District Ferozabad. All other official information regarding the receive of instalment and expenditure accounts were collected from Deputy Director's Office, Etawah, as District Ferozabad comes under the control of Dy. Director, Soil Conservation, Etawah. A meeting, with Mr. Anand Vardhan, Chief Development Officer (CDO), Ferozabad, was also held in connection with the progress of the Integrated Wasteland Development Project of the district.

3. Project Profile

Wasteland means degraded land, which is producing below its full productive capacity and which can be improved through a reasonable investment (Ministry of Rural Development, Government of India, 1994). The land, which is deteriorating for lack of appropriate water and soil management or on account of natural, causes. In District Ferozabad, the wastelands have been selected on the basis of watersheds, survey team held detailed discussions with the Watershed Committee, Watershed Associations to identify the need of each village/watershed with regard to fodder, fuel, timber as well as measures required to be taken to conserve soil and moisture and natural resources.

To develop the wasteland on watershed basis, an Integrated Wasteland Development Project for District Ferozabad had been prepared for the financial support by the Department of Land Resources, Ministry of Rural Development, Government of India. The wasteland of District Ferozabad, which have been taken and improving by application of scientific, technological and other sources so as to provide economically and ecologically viable vegetative cover on watershed basis. Therefore, watershed has been taken as the basic unit for planning, conservation of soil and water, regeneration of vegetal cover.

Major portion of the district comes under the catchment of Yamuna river and its tributaries. Slope of area varies from 0.5 to 10 per cent. The major areas are affected by soil degradation/erosion problem. The area is well drained in upper reaches, but in lower reaches shallow deep ravines have been formed. The texture of the soil varies from loamy sand to sandy loam. Depth of the soil varies from 0.5 metre to more than 50 metres and

permeability of the soil varies from moderate to very high. The soils are very poor in organic matter, i.e. nitrogen and phosphorus but rich in potash.

Depth of ground water level varies from 15 metres to 62 metres in different seasons. Recharge of dryout well is poor. Average annually rainfall received 697mm. Out of this 60 per cent of rain water flows as run-off towards rivers carrying with fertile soil, due to slope terrain on an average of 20 metric tonne per year fertile soil is lost. This has resulted in continuous decrease in the productivity. Due to continuous pumping out ground water, aquifer levels are falling at an average rate of 0.30 metre per year.

Due to mis-management of natural resources, like soil, water and vegetation, top soil has been washed away and formation of shallow ravines are under process. In some places parent rocks has been exposed. At present depth of soil is less than 0.5 metre, slope percentage ranges from 0.5 metre to 10 metre or more. Around 60 per cent area of the district suffers from land degradation. The rolling and undulating topography with higher slopes have resulted in severe erosion and siltation in reservoirs. Due to land degradation, ecology of area has been disturbed. The major problems of the district are (a) receding ground level, (b) increased moisture stress, (c) soil erosion and formation of shallow and deep gullies and (d) lack of vegetable cover. Because of excessive biotic interference, vegetable cover of the area is decreasing at very fast rate. To restore the ecological balance of the area, it is necessary to conserve the natural resources like soil, water and vegetation for obtaining the sustain production of biomass on per unit area.

4. Watershed Proposal

Watershed proposal had been prepared on the basis of guidelines provided from Wasteland Development Board, Ministry of Rural Development, Government of India.

According to the Watershed proposal the following conservation and management practices has to be done:

- (1) In-situ moisture conservation practices – contour cultivation.
- (2) Contour vegetative barriers, construction of field bunds, establishment of thick vegetative barriers with shrubs, grass and sowing of legume seeds on contour lines.
- (3) Contour bunds with sodding.
- (4) Peripheral bunds with sodding.
- (5) Submergence bundhies with sodding.
- (6) Land levelling and smoothening.
- (7) Construction of diversion drain and plantation of bushes and trees on the bank of diversion drain.
- (8) Gully plugs with sodding.
- (9) Pucca structure for safe disposal of excess run off water from contour bunds, submergence bunds, gully plugs, water harvesting bundhies and peripheral bunds.
- (10) Check dam construction – stone check dam, pucca check dam.
- (11) Water harvesting bundhis/water harvesting tanks to recharge under ground water.
- (12) Agro-forestry-seeds of suitable species would be sown on the earthen bunds/sapping also be planted.
- (13) Dry land horticulture.
- (14) Farm forestry.
- (15) Afforestation on community land and government land.
- (16) Three-tier vegetation along the banks of Gullies and Nalas.

The project proposal covering an area of 11479 hectare with cost norm of Rs.459.15 lakhs. The total number of watersheds selected under the Integrated

Wasteland Development Project were 19, but one watershed was not be treated at all and work had confined into 18 watersheds. On an average, the area of Watershed is ranging from 400 hectares to 750 hectares. Watershed-wise location and area to be treated is given in Table-1.

Table 1 : Watershed-wise Location and Area to be Treated in District Ferozabad

Sl.No.	Name of Watershed	Total Area to be Treated (in ha.)
1	Y-15-48	476.40
2	Y-15-49	471.10
3	Y-15-50	561.38
4	Y-15-53	717.85
5	Y-15-55	1081.17
6	Y-15-56	558.55
7	Y-15-57	628.25
8	Y-15-60	570.00
9	Y-15-62	590.00
10	Y-15-66	150.80
11	Y-15-73-1	773.60
12	Y-15-73-2	795.40
13	Y-15-73-3	700.50
14	Y-15-108-22	487.00
15	Y-15-108-23	734.00
16	Y-15-108-24	729.00
17	Y-15-108-25	846.00
18	Y-15-108-26	608.00
	Total	11479.00

Source : B.S.A., Ferozabad.

Under the Integrated Wasteland Development Project, the total area was divided for the execution of the work into two parts. Bhumi Sanrakshan Adhikari (BSA) I, is having an area of 5060.26 hectare, of the watersheds, Y-15-48, 49, 50, 53, 55A, 56, 59, 60 and 62 and Bhumi Sanrakshan Adhikari (BSA) IV, is having an area of 6418.74 hectare, of the watersheds, Y-15-66, 55B, 73-1, 73-2, 73-3, Y-15-108-22, 23, 24, 25 and 26.

5. Watershed Development Team (WDT)

Watershed Development Team (WDT) has been constituted in the District Ferozabad under the Integrated Wasteland Development Project. It has been found that the members of Watershed Development Team are well educated and technically trained in watershed management work. There are 8 members in the two teams of WDT altogether. BSA-I, Ferozabad and BSA-IV, Ferozabad are the team leaders of these two teams. Shri P.S. Sharma (Agronomist), Shri R.B. Singh (Sociologist) and Veterinary Officer, Madanpure are the team members, working with the team leader BSA-I, Ferozabad. Shri Y.B. Singh (Veterinary Doctor, Ferozabad), Shri Bhoori Singh (Principal, RD Verma, HS School) and Shri Girish Mohan Saxena (Technical Assistant) are the team members working with the second WDT under the leadership of BSA-IV, Ferozabad. Project Implementation Agency (PIA)-wise details of members of Watershed Development Team has been given in Table-2.

Table 2 : PIA-wise Details of Members of WDT, District Ferozabad

S.No.	Name of PIA	Name and Post of the Members	Post in WDT	Qualification
1.	BSA-I, Ferozabad	1. Shri Virendra Singh Verma, BSA-I Ferozabad 2. Shri P.S. Sharma (Agronomist) 3. Shri R.B. Singh (Sociologist) 4. Veterinary Officer (Madanpur)	Team Leader Member Member Member	B.Sc (Agr.) B.Sc (Agr.) MA. B.Sc (AH)
2.	BSA-IV, Ferozabad	1. Shri U.B. Singh, (BSA, Ferozabad-IV) 2. Shri Y.B. Singh (Vet Doctor) 3. Bhoori Singh (Principal) 4. Shri Girish Mohan Saxena (Tech Asstt).	Team Leader Member Member Member	M.Sc. (Agr.) B.Sc (AH) MA, BEd Engg. Diploma

Source : Information from BSA-I and IV Office, Ferozabad.

Watershed Development Team accounts have been opened in Ferozabad District under the control of team leader – Bhoomi Saurakshan Adhikaris Ist and IVth Ferozabad. The Nodal Officer, BSA-I, has informed us that the three accounts of WDT have been opened, one in Union Bank of India and two accounts in Bank of India, with Account Nos. 7123, 7269 and 5976 respectively. The Account Numbers 7123 and 7269 were having a balance of Rs.12,252.00 and Rs.1,30,016.00 respectively. These two accounts were opened in the supervision of BSA-I. Under the supervision of BSA-IV, a balance of Rs.3,30,305.00 in the Account Number 5976 were found. So a total amount of Rs.4,72,573.00 was a balance amount of Watershed Development Team, upto November 2001, in district Ferozabad.

6. District Watershed Advisory Committee

District Watershed Advisory Committee has been set up under the Integrated Wasteland Development Project in district Ferozabad. This Committee is having eleven members altogether. All these members are educated and well qualified in watershed development work. Chief Development Officer/Executive Director and Project Director, DRDA, Ferozabad are the President and Member-Secretary of the Committee respectively. All other nine persons of this committee designated as Member. They are : (1) Dy. Director, Agriculture Extension, (2) Divisional Director, Social Forestry, (3) District Agricultural Officer, (4) Horticulture Officer, (5) Chief Veterinary Officer, (6) Bhoomi Sanrakshak Adhikari-I, (7) Bhoomi Sanrakshak Adhikari-IV, (8) Dr. L.S. Bhushan, Head of the Soil and Water Conservation Research Centre, Jalesar, Agra, and (9) Principal Gramya Vikas Sansthan, Agra. A list of members of District Watershed Advisory Committee is shown in table-3.

Table 3 : List of Members of District Watershed Development Advisory Committee,
District Ferozabad

Sl.No.	Designation of the Officer	Post
1.	Chief Development Officer/Executive Officer	President
2.	Project Director, DRDA, Ferozabad	Member Secretary
3.	Dy. Director of Agriculture Extension, Ferozabad	Member
4.	Divisional Officer Social Forestry, Ferozabad	Member
5.	District Agriculture Officer, Ferozabad	Member
6.	District Horticulture Officer, Ferozabad	Member
7.	Chief Veterinary Officer, Ferozabad	Member
8.	Bhoomi Sanrakshan Adhikari, Ferozabad - I	Member
9.	Bhoomi Sanrakshan Adhikari, Ferozabad - IV	Member
10.	Head of the Soil & Water Conservation Research Centre, Agra	Member
11.	Principal, Gramya Vikas Sansthan, Agra	Member

Source : Information from BSA-I and IV Office, Ferozabad.

7. Watershed Committee

Nineteen Watershed Committees (WC/WA) have been constituted in district Ferozabad. All these watershed Committees have been constituted according to watershed code, but in watershed code No.Y-15-60, work is not started yet. So in Watershed Y-15-60, no watershed committee has been formed so far. Every watershed committee has a President and a Secretary. The name of the villages, where committees have been formed are : (1) Nagla Dhanpal, (2) Pariyar, (3) Nagla Duli, (4) Gudha, (5) Mohammadpur Nadai, (6) Urawar, (7) Mohd.pur Nadai, (8) Atapur, (9) Oobti, (10) Rajpura, (11) Rasoolpur, (12) Nanpi Peethani, (13) Agnoopura, (14) Baghai, (15) Khagrai, (16) Hazratpur, (17) Dhalpur, (18) Chikao. It has been found that all the villagers of the concerning villages are the member of Watershed Association (WA) and out of them, one

person has been elected as President of the Watershed Association (WA). Every Watershed Committee has a President and a Secretary works with the concern of BSA and takes active part in execution of the project work (Table-4).

Table 4 : Code-wise Name of President and Secretary of Watershed Committee.
District Ferozabad

Sl. No.	Code No.	President's Name	Address (Village)	Secretary's Name
1	Y-15-48	Shri Jagdish Singh	Nagla Dhan Pal	Shri Brijendra Singh
2	Y-15-49	Shri Jagdish Singh	Pariyar	Shri Raj Kumar Rathi
3	Y-15-50	Shri Dalbir Singh	Nagla Duli	Shri V K Verma
4	Y-15-55A	Shri Sahdev Singh	Gudha	Shri R R Maurya
5	Y-15-56	Shri Vishambar Dayal	Mohammadpur Nadai	Shri Bhoori Singh
6	Y-15-53	Smt. Madhu Yadav	Urawar	Shri Vinod Kumar
7	Y-15-57	Shri Vishambar Dayal	Mohd.Pur Nadai	Shri Bhoori Singh
8	Y-15-62	Shri Prem Bihari	Atapur	Shri Gajendra Singh
9	Y-15-60	Work is not started yet in this WC		
10	Y-15-55B	Shri Jagdish Prasad	Oobti	Shri O P Sharma
11	Y-15-66	Shri Shiv Ram Raj	Rajpura	Shri Veer Pal Singh
12	Y-15-73-1	Shri Ram Naresh	Rasoolpur	Shri R K Tyagi
13	Y-15-73-2	Shri Ranjeet Singh	Nanpi Peethan	Shri R K Kaushik
14	Y-15-73-3	Smt. Kamlesh	Agnoo Pura	Shri Ram Manohar
15	Y-15-108-22	Shri Hari Om	Baghai	Shri O P Sharma
16	Y-15-108-23	Shri Than Singh	Khagrai	Shri Ram Manohar
17	Y-15-108-24	Shri Bhanwar Singh	Hazaratpur	Shri R K Kaushik
18	Y-15-108-25	Shri Bhoori Singh	Dhalpur	Shri R K Tyagi
19	Y-15-108-26	Shri Pramod Singh	Chikao	Shri R K Sharma

Source : B.S.A.-I&IV Office, Ferozabad.

It has been informed that W/C and W/A are well trained in watershed development work. They were trained by well organized training programmes in the district in watershed development work. The total number of trainings had been organized upto November 2001 were 105 and total number of beneficiaries were 7497. All these beneficiaries were trained by the experts of watershed development work. The subject of trainings were – technical parts, enduring of project, Self-Help Group, Community Organization and technical knowledge of agriculture production, etc. The accounts of WC/WA have been open and were shown by Mr. U.B. Singh, BAS-IV to the evaluator (Photoplate 1).



Photoplate-1 The Accounts of WC/WA were shown to Evaluator by Mr. U.B. Singh, B.S.A. IV, Ferozabad.



Photoplate-2 A Roof on the village school had constructed from Community Development Fund in the village Rasulpur.

8. WC/WA Accounts

Watershed Committees' accounts have been opened in the District Ferozabad. The Nodal Officer-BSA-I, has informed that five accounts of Committee were opened in Union Bank of India, Ferozabad and thirteen accounts of Committee were opened in the Bank of India, Ferozabad. One account of W.C. could not be opened yet, because no work has been initiated in the Watershed Code No.Y-15-60, so far. In this way A/c Nos.7377, 7385, 7384, 7376 and 7375 were opened in Union Bank of India, Ferozabad and A/c Nos.6594, 6595, 7799 were opened in Bank of India, Ferozabad under the control of BSA-I. The account Nos.7289, 7353, 7291, 7292, 7290, 7630, 7631, 7651, 7634 and 7629 were opened in the Bank of India, Ferozabad, under the area of BSA-IV, Ferozabad. It has been informed that all these accounts are Savings Bank Accounts and were opened in the Nationalized Banks, Ferozabad.

To improve employment generation at local level, maximum physical work, such as, formation of check Dams, Peripheral Bunds, Marginal Bunds, Contour Bunds and construction of Ponds were executed by the local people and landless labourer. At the time of field survey, this fact has been made confirm from the local people, farmers, Gram Pradhans of the concerning villages and the members of Watershed Associations. As far as Watershed Committees' accounting is concerned, the document shows only the account numbers and the name of the Banks where accounts were opened. These documents are not showing the withdrawal and remaining balance of the accounts. The WC/WA are keeping all the accounts of the persons those who are being engaged in execution of work.

9. Watershed Development Fund Account

Under the Wasteland Development Project, Watershed Development Fund (WDF) accounts have been opened in 18 Watershed codes, out of the total 19 Watersheds in district Ferozabad. As mentioned earlier, in watershed code number Y-15-60, no work has been started yet. This watershed comes under the supervision of BSA-I of the district. So in this watershed code no WDF account has been opened so far. All the Watershed Development Fund accounts were opened in the Nationalised Banks, i.e. Bank of India and Union Bank of India, Ferozabad. The total expenditure on the work component from the watershed development funds were Rs.1,68,67,577.00 upto September 2001 in district Ferozabad. Contributed amount of the farmers in all 18 watersheds were Rs.11,60,994.00. Under the supervision of BSA-I, a total amount of Rs.95,57,400.00 were used on the work component and an amount of Rs.8,17,018.00 were as farmers contribution. Under the supervision of BSA-IV a total amount of Rs.73,10,177.00 has been spent on the work component and an amount of Rs.3,43,976.00 were in the WDF as farmers' contribution amount.

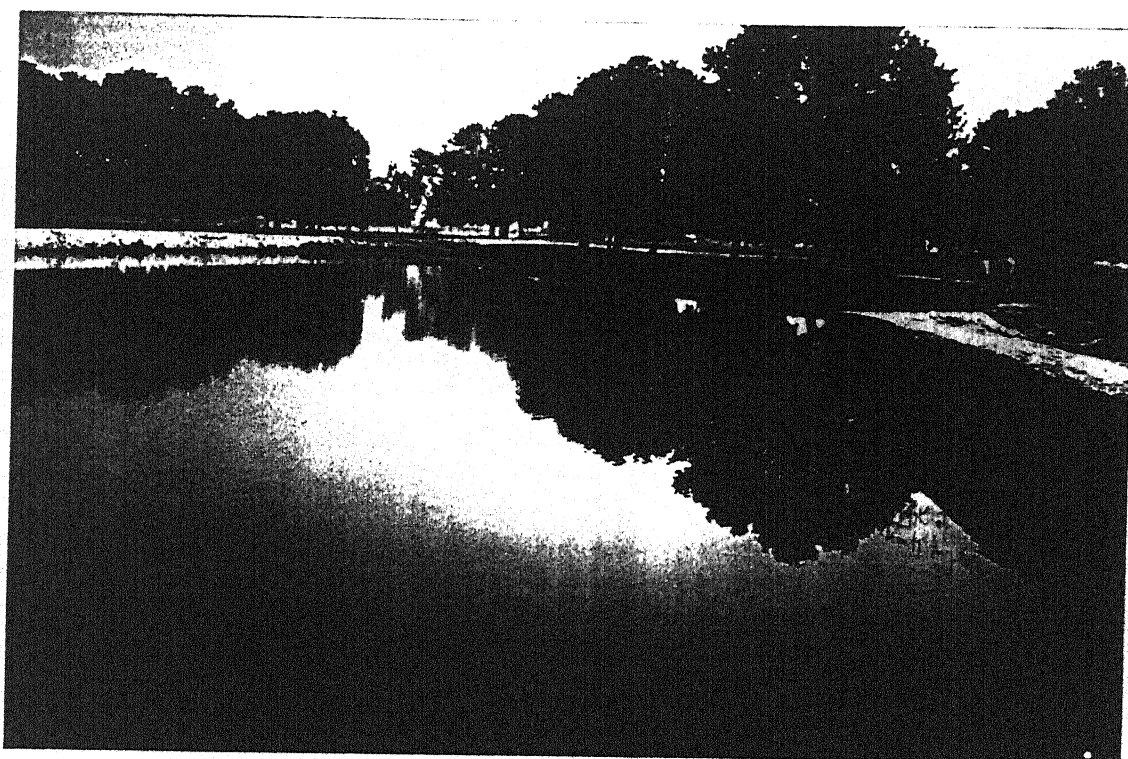
It has been found that 9 targeted watershed codes were under the supervision of BSA-I and he could attend 8 watersheds upto November 2001. The total amount of Rs.95.574 lakhs were used on the watershed work component and Rs.8.170 lakhs were remaining amount in the WDF, which was contributed amount of the farmers. In the same way, the targeted watershed codes were 10 for the BSA-IV and all these 10 watersheds had been taken for the work component and a total amount of Rs.73.101 lakhs were spent and Rs.3.44 lakhs were in the WDF, which was contributed amount of farmers.

10. The Details of Community Organization Work

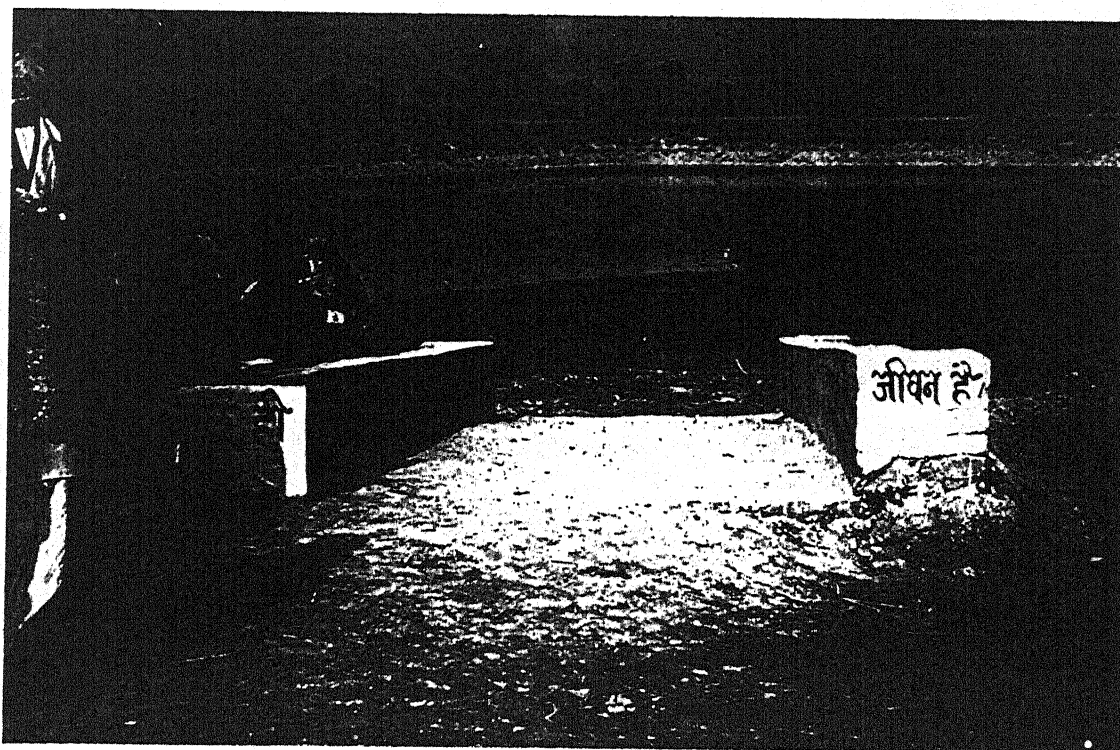
The number of proposed works under the community development organization programme were 31 and out of these, 29 works have been accomplished upto November 2001, in the district Ferozabad. The sanctioned amount for the completion of job was Rs.18.197 lakhs and an amount of Rs.16.446 lakhs has been utilized so far. So many community development works has been performed by the PIA in district Ferozabad. A number of ponds, check roads, kharanja roads, boundary walls, tree plantation, hand pumps, drain for irrigation, etc. has been performed under the community organization work. A roof of the Janta Vidhyalaya, Rasoolpur had been constructed under the community organisation work in the year June 2001. The amount of Rs.40,000.00 has been spent on the job (Photoplate-2).

A pond in village Nagla Dhampal, block Madanpur was constructed in Agusut 2001, under the community organization work. It covers around an area of 0.4 hectare and costing of Rs.62,000.00 (Photoplate-3). A pond in village Himatpur Dhauron was also built for the irrigation purposes, costing of Rs.77,000.00 and had been performed from the community development funds (Photoplate-4). One pond in village Madawali and one in Hazaratpur were also checked by the evaluator at the time of field survey (Photoplates-5&6). The amount invested to perform the job was Rs.82,000.00 for kutchha work and Rs.22,000.00 for pucca work of the pond, in village Madawali. An amount of Rs.70,000.00 were spent on the construction of Hazaratpur pond.

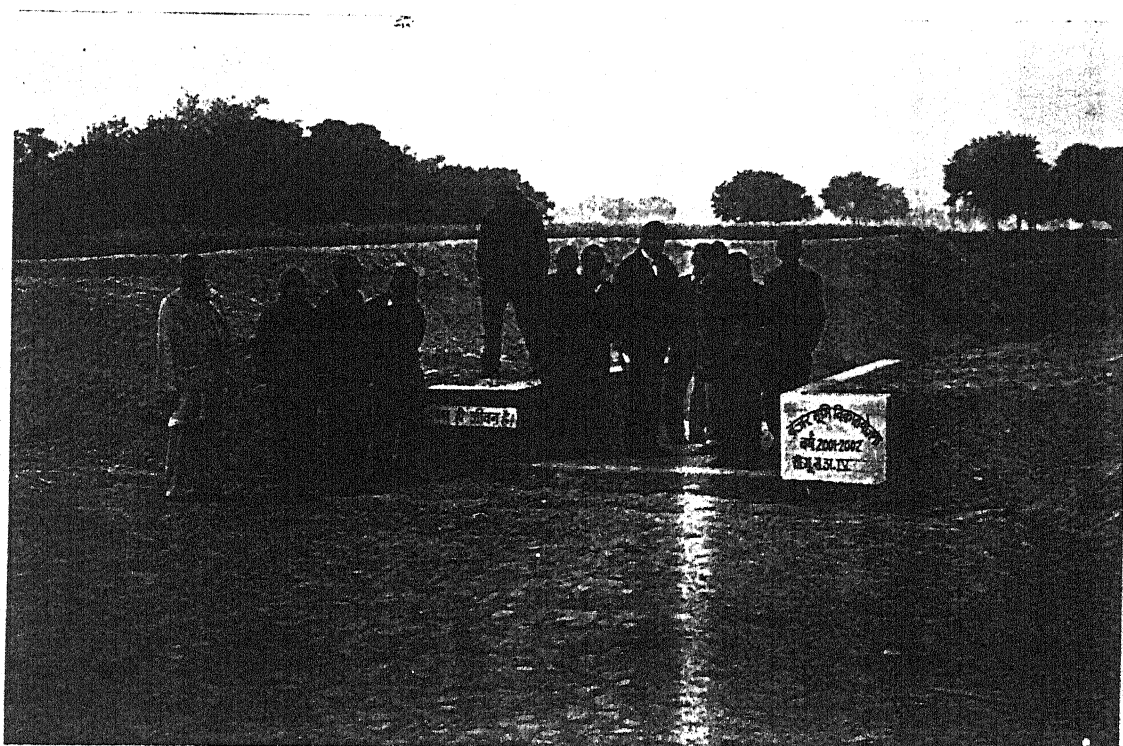
A boundary wall of a community place was constructed from the community development fund and an amount of Rs.76,000.00 were utilized in the construction of this 110 metres long wall of village Nagariya, block Madanpur, district Ferozabad, under the



Photoplate-3 A Pond of Village: Nagla Dhanpal, Block Madanpur, Distt. Ferozabad was constructed in Aug. 2001, under the C.D.W.



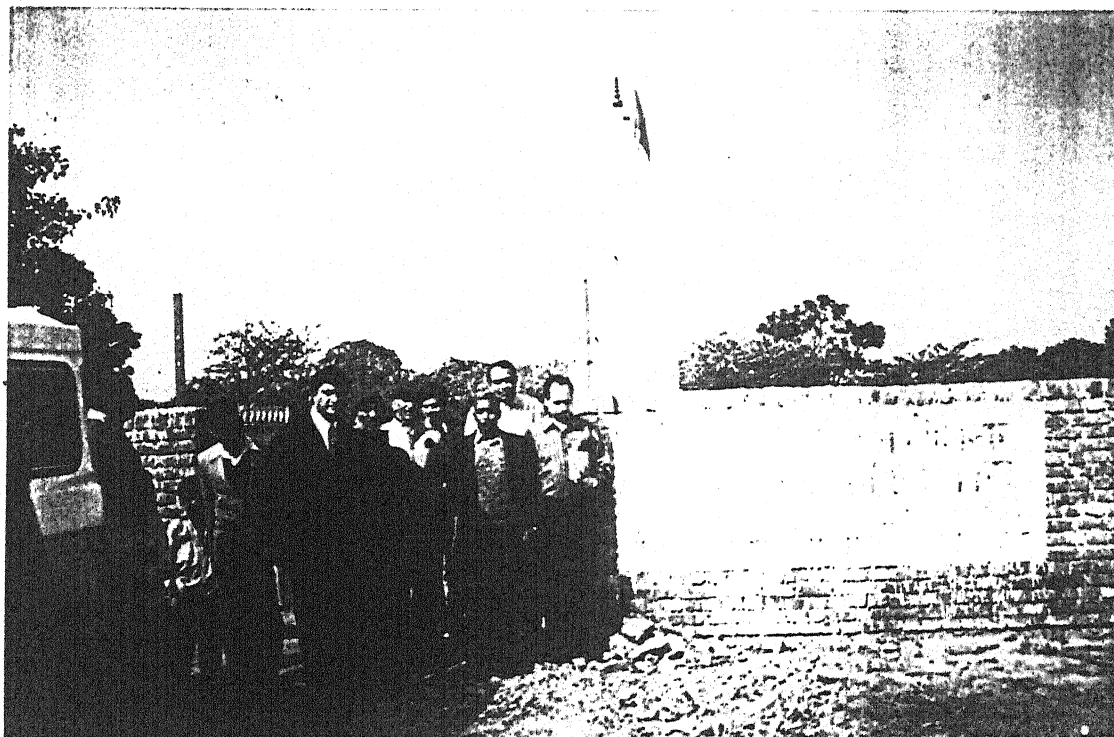
Photoplate-4 A Pond of Village: Himmatpur Dhauron, Block, Shikohabad Distt. Ferozabad, was constructed under C.D.W.



Photoplate-5 A Pond in Village: Madawali, Block; Tundla, Distt. Ferozabad was constructed under C.D.W.



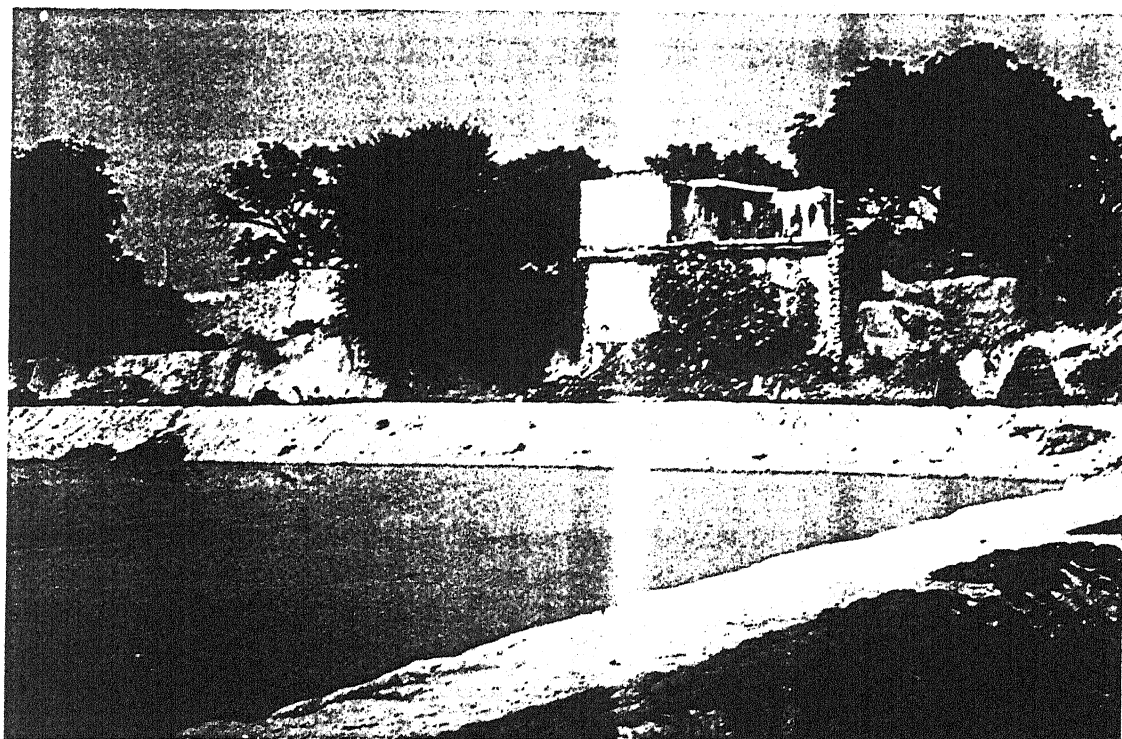
Photoplate-6 A Pond in Village, Hazratpur, Block, Tundla, Distt. Ferozabad was build under C.D.W.



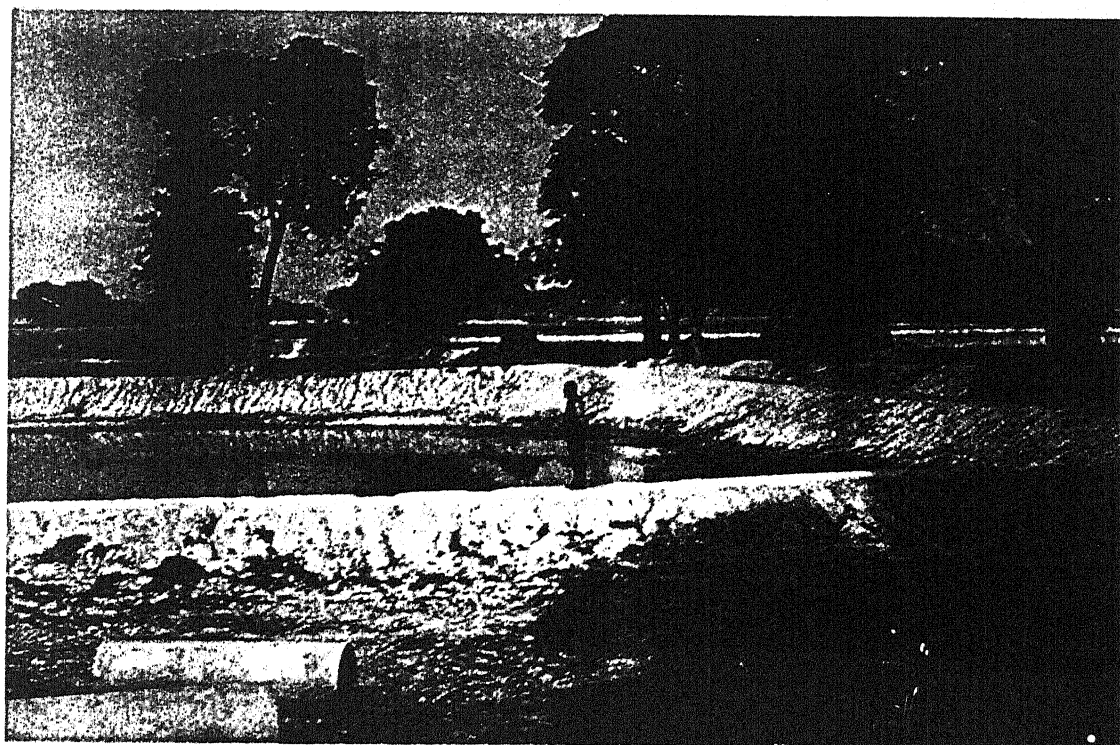
Photoplate-7 A Boundary wall of a Community place was build in Village Nagariya, Block, Madanpur Distt. Ferozabad.



Photoplate-8 A Check Road has been constructed in the Village, Chhikaun, Block, Tundla, Distt. Ferozabad.



Photoplate-9 A Pond in Village, Nanpai Pithani, Block & Distt. Ferozabad.



Photoplate-10 A Pond in Village, Kalamai, Block & Distt. Ferozabad.

supervision of BSA-I (Photoplate-7). One check road has been constructed and checked by the evaluator in the village Chhikaun (Photoplate-8). The length of the road is 1398 metres and the amount invested was Rs.98,000.00. The road had been constructed under the work component. Another two ponds which has been checked were found well constructed and intact in the villages Nanpai Pithani and Kalamai. An expenditure of Rs.74,000.00 were made on each of the pond (Photoplates-9&10).

The performance of the community organization work in district Ferozabad has been found satisfactory. Almost all the work which was targeted under the Community Development Organization Programme were covered and performed very well in the district Ferozabad. The remaining work would be performed in the second step of the project.

11. Users and Self-Help Groups

Under the supervision of Project Implementing Agency (PIA), 18 Watershed Associations and 237 users' groups have been constituted. Out of these 237 users' groups 105 were constituted under the supervision of BSA-I and 132 were constituted under the supervision of BSA-IV. The total number of SHGs were opened in the district were 31, out of a target of 38 SHGs. 10 Self-Help Groups were constituted in the supervision of BSA-I while the target was 18 SHGs. 21 SHGs out of a targeted 20 SHGs were constituted under the supervision of BSA-IV. As a matter of fact one extra SHG has been constituted, which is supposed to be an excellent job done by BSA-IV in his area. On the other hand more SHGs are required in the area of BSA-I. It has been checked and found that every member of the SHG is having passbook of his own contribution, which has been provided by the PIA. There are 18 male SHGs, 7 female SHGs and 6 mixed SHGs, working in the district.

The total number of SHGs' beneficiaries were 347 and a total contribution of the district in these SHGs were Rs.1,10,190.00. Rs.35,900.00 were provided as loan to the members of the SHGs and also a recovery of Rs.26,900.00 were made upto November 2001. So these groups are functioning very well and all the records were found well maintained (Photoplates-11&12). One SHG (female) of village Chhikaun and one at village Himmatpur Dhaauro were checked at the time of field survey (Photoplates 13&14). The Choodi Self-Help Group is working well and a contribution amount of Rs.3,600/- were collected in this group. The President of the group informed us that they had a plan to purchase an automatic machine for Choodi making and for the purpose, they will apply for a loan from the revolving fund. A total amount of Rs.19,000.00 has been sanctioned and distributed among the members of 4 SHGs, as a loan, from the revolving fund, in district Ferozabad. All the members of users groups and self-help groups are trained in maintenance of soil and water conservation work. They have also taken part in the executed work of the project at the field level by performing physical labour or by arranging labour for measurement work, etc.

12. Role of Women in the Project

It has been found that the role of women in execution of the project, was not very significant in the District Ferozabad except they have constituted 7 female Self-Help Groups (SHGs). They were participating in other 6 SHGs of mix-male and female groups as the members of the group in the district. No female worker or labour is found in the execution of field work. Although, few new female Self-Help Groups reported to be constituted under the supervision of BSA-I but more emphasis required by the Project Implementation Agency (PIA), Watershed Development Team (WDT) and District Rural

Development Authority (DRDA) in this direction. In few villages, the village Pradhans are female candidate and were taking active part and interest as a public representative in the project work.

13. Training, Extension and Publicity

A total number of 105 trainings have been organized upto November 2001 in District Ferozabad and total number of beneficiaries were 7497. The document regarding the training programmes, which have been provided by the Nodal Office – BSA-I, Ferozabad shows that the total available amount for the training was Rs.8.822 lakhs and Rs.6.787 lakhs were spent on the trainings in the district. These trainings were held in the supervision of BSA-I and BSA-IV. Out of a total number of trainings, 32 were held under the control of BSA-I and 73 were organized by BSA-IV. The amount of Rs.4.891 lakhs were spent on the trainings run by BSA-I and Rs.1.896 lakhs were spent on the trainings arrange by BSA-IV of the district. It has been found that a balance of Rs.2.035 lakhs were still laying unused under the training budget programme. As far as publicity and extension work is concerned, it has been found that every where in the villages, slogans and holdings regarding the project work, were placed and details regarding the project programmes were painted on the walls and other appropriate places. This was building a good atmosphere for the Wasteland Development Project.

14. Sustainable Development of the Area and Performance of PIA

An intensive survey has been made to check the sustainable development of the area and overall performance of the Project Implementation Agencies (PIA), which were

shown by them on document. All the records and maps relating to the Integrated Wasteland Development Project, were checked carefully on the spot. It has been found that the ravines and slopes are very steep and deep in the villages of Madanpur block, as compared to the villages of Shikohabad and Tundla blocks of the district Ferozabad. The rolling and undulating topography with higher slopes have resulted in severe erosion and siltation in reservoirs. About 60 per cent area of the district suffers from land degradation. The check dams (CD), peripheral bunds (PB), contour bunds (CB) and marginal bunds (MB) were constructed to resolve this problem. Few check dams (CD) of village Nagaria and Mohammadpur were checked (Photoplates-15,16&17). The contour bunds of the villages Nagla Kesari, Rasoolpur and Nagla Harlal were checked and found in good condition (Photoplates-18,19&20). Peripheral bunds (PB) of the village Nagaria, Rasoolpur and Marginal Bunds (MB) of villages Baghai and Gadhijafar were checked and found intact as well as in good condition (Photoplates-21,22,23,24&25). Most of the farmers in the concerning villages, we met, informed us that because of the formation of these check dams, peripheral bunds, contour bunds and marginal bunds, the soil erosion and water erosion has been checked and agricultural production increased upto 20 per cent (Photoplate-26).

Maximum number of farmers at the villages of district Ferozabad, to whom we met, responded in favour of the PIA. They also informed that the production of agricultural produce has been increased since the implementation of the Wasteland Development Project. The work performed by Project Implementation Agencies were found satisfactory.



Photoplate-11 President of the one Female SHG, Smt. Prema Devi Showing the Records and Pass Books of her group to Evaluator in the Village, Nagaria, Block, Madanpur Distt. Ferozabad.



Photoplate-12 President and other Female members of one Female SHG in Distt. Ferozabad.



Photoplate-13 Choori Female Self Help Group of Village Chhikaun Block, Tundla Dist.. Ferozabad, President of SHG standing in the centre.



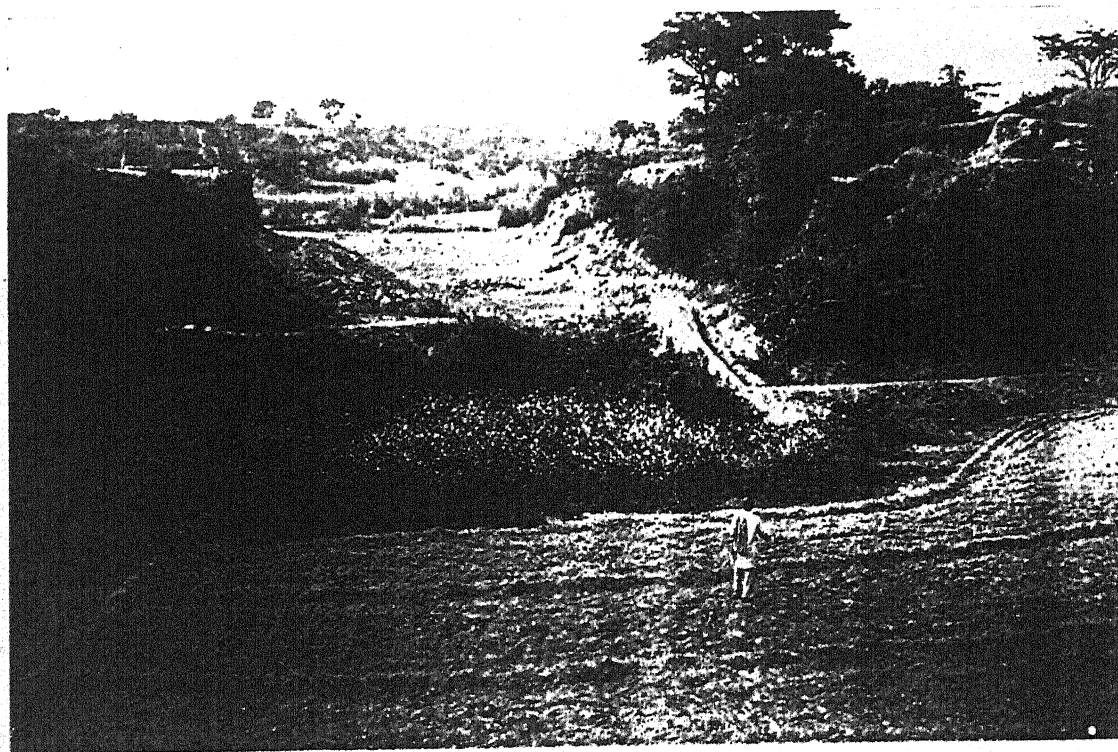
Photoplate-14 Self Help Group of Village, Himmatpur Dhauro Block, Shikohabad Distt. Ferozabad.



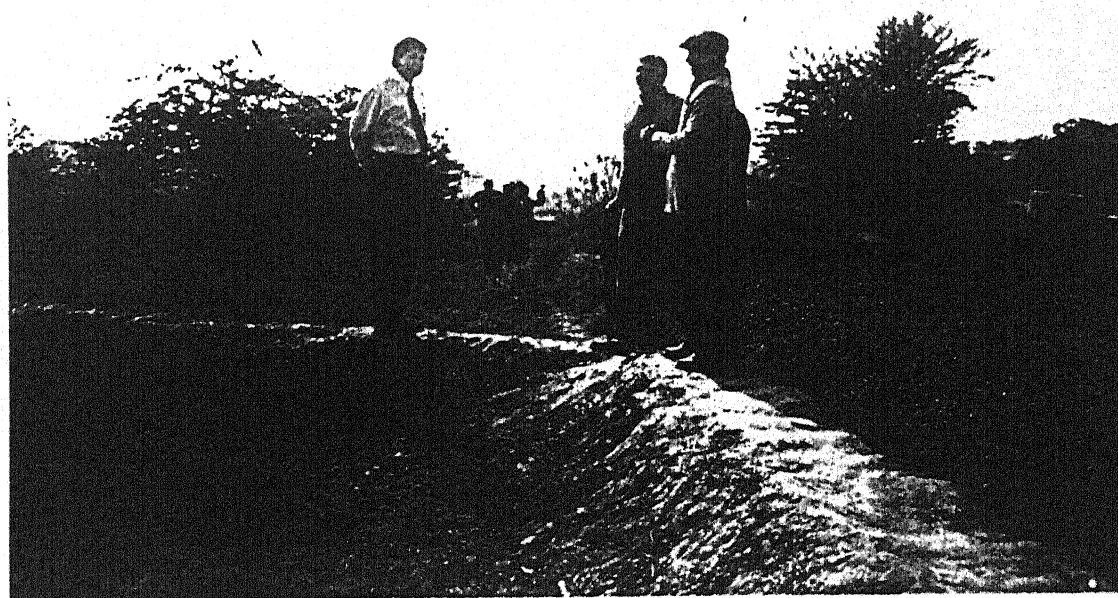
Photoplate-15 A check Dam (C.D.) of Village, Nagaria, Block
Madanpur Distt. Ferozabad.



Photoplate-16 A Check Dam (C.D.) of Village, Mohammedpur-Nadai
Block, Madanpur Distt. Ferozabad.



Photoplate-17 A C.D. of Village, Mohammadpur Distt. Ferozabad.



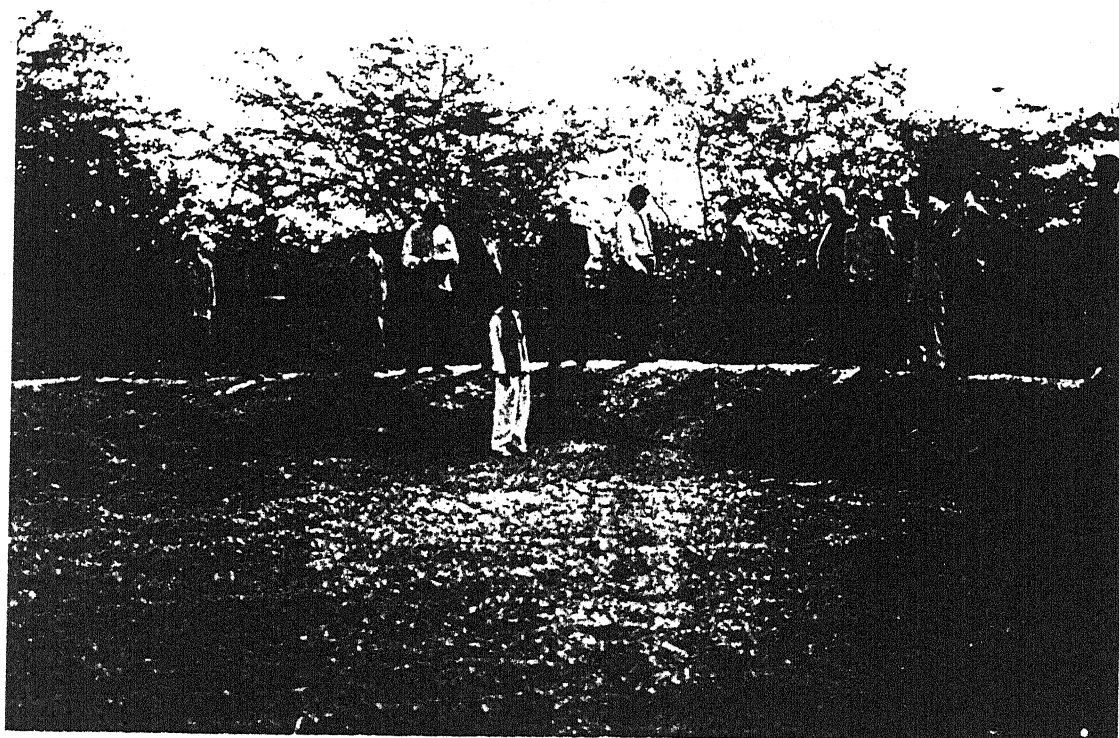
Photoplate-18 A Contour Bund (C.B.) of Village, Nagla Kesri Distt. Ferozabad.



Photoplate-19 A Contour Bund (C.B.) of Village Rasoolpur
Block, Shikohabad Distt. Ferozabad.



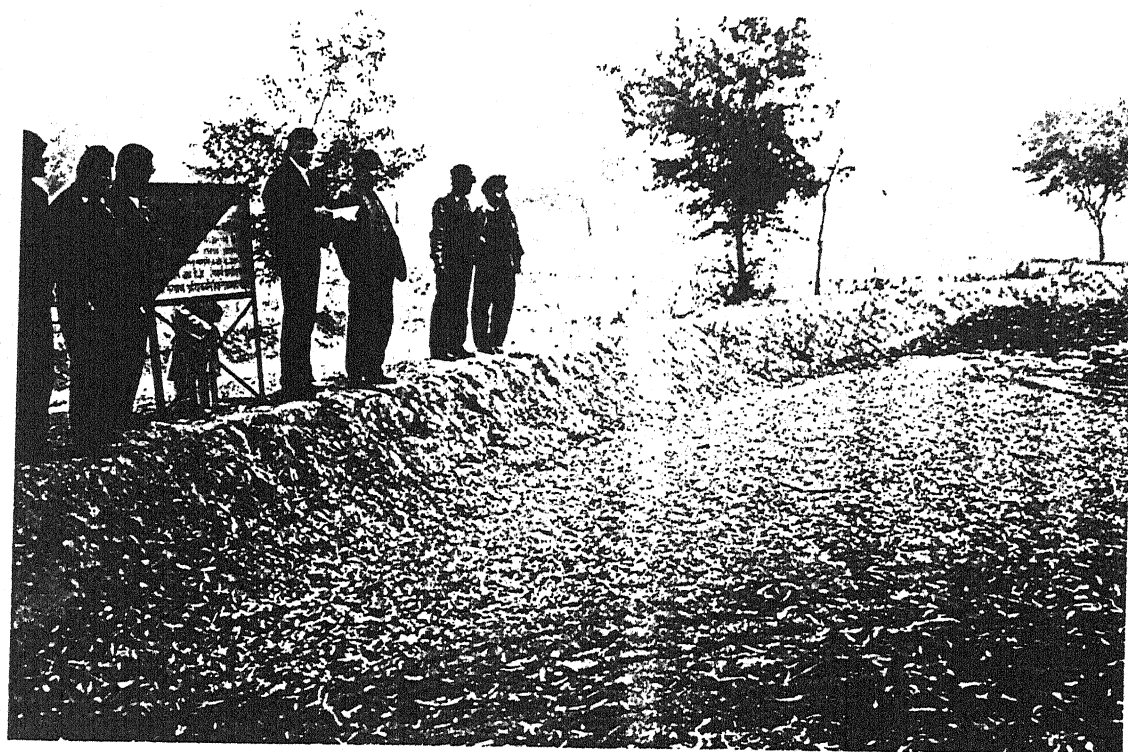
Photoplate-20 A Contour Bunding (C.B.) of Village, Nagla Harlal
Block Madanpur Distt. Ferozabad.



Photoplate-21 Peripheral Bund (P.B.) of Village, Nagaria
Block Madanpur Distt. Ferozabad.



Photoplate-22 P.B. of Village, Rasoolpur Block, Shikohabad
Distt. Ferozabad.



Photoplate-23 Marginal Bund (M.B.) of Village, Baghai
Block Tundla, Distt. Ferozabad.



Photoplate-24 M.B. of Village, Gadhi Jafar, Block, Tundla
Distt. Ferozabad.



Photoplate-25 Marginal Bund (M.B.) of Village, Gadhi Jafar Block, Tundla, Distt. Ferozabad.



Photoplate-26 Evaluator talking with Farmer of Village, Rasoolpur Block & Distt. Ferozabad, regarding the impact of project on Agriculture in the area.

15. Physical and Financial Achievements

Under the Integrated Wasteland Development Project, the entire physical targeted area, as per approved work programme by DRDA was 11479.00 hectare. The physical area, which has been treated upto November 2001 was 6529.96 hectares and the area, which has to be treated in second phase of the project is 4949.04 hectare. The total amount of Rs.363.716 lakhs was approved for the execution of total physical work components. Out of the total amount, Rs.168.675 lakhs has been used on the treatment of the physical area 6527.96 hectares so far (November 2001). According to the records, which has been provided by the PIA to evaluator, shows that the amount of Rs.195.041 lakhs would be required for the accomplishment of the remaining physical work in the areas of 4949.041 hectares in the second phase of the project.

The construction of the Contour Bunds (CB), which has been executed, cover an area of 3138.82 hectare of land and the amount spent on this work was Rs.51.456 lakhs. An area of 2342.41 hectare has been covered for the formation of Peripheral Bunds (PB)/ Marginal Bunds (MB) and an amount of Rs.67.115 lakhs has been spent on the performance of the job. The Check Dams (CD) have been made in the area 492.35 hectares and the amount spent on the executed work was Rs.22.00 lakhs. Other physical work has been executed in the area of 556.079 hectare and amount of Rs.28.104 lakhs has been spent on this work.

16. Utilization of Fund and Maintenance of Records

A total fund of Rs.205.769 lakhs has been released so far for the execution of work components, training programme, administrative expenses and for community

development work in the Integrated Wasteland Development Project. Table-5 shows work-wise distribution of the funds and the expenditure made on them, upto November 2001.

Table-5 : Total Amount Received and Total Expenditure Made on Integrated Wasteland Development Project, District Ferozabad

(Upto November 2001)

Sl.No.	Items	Amount Received (Rs. in lakhs)	Expenditure (Rs. in lakhs)	Remaining Amount (Rs. in lakhs)
1.	Work component	168.768	152.80	0.093
2.	Community Organization Development work	17.655	16.446	1.209
3.	Training Programmes	8.822	6.787	2.035
4.	Administrative Expenses	10.524	9.273	1.251
	Total	205.769	201.181	4.588

Source : Nodal Officer, BSA-I, District Ferozabad.

It has been found that all the funds, which were sanctioned for the execution of project work, were properly utilized and the financial records of the accounts were found well maintained. The details of expenditure of items like work component, training programmes and community development work has also been provided to us, which has been described above in the report. Only the details of administrative expenses were not provided.

17. Overall Impact Assessment

Contour bunds (CB), peripheral bunds(PB)/Marginal bunds (MB) and check dams (CD) have been constructed according to the approved plan in the district Ferozabad. A number of ponds have been constructed in the different watersheds and were constructed

in a well-planned way. It was very impressing and fruitful for the area in order to hold water in these ponds. They will provide water for the agricultural purposes, for the animals and will be a big source to improve water table of the area.

Contour bunds, Peripheral Bunds/Marginal Bunds and Check Dams are required sodding on them. A more emphasis is required on land levelling and smoothening of the agricultural farms. Pucca structure for safe disposal of excess run off water from all type of Bundhis and check dams are required and should be executed. At the time of field survey, no stone check dam or pucca check dam was found in the district. Contour ploughing is also essential to minimise soil and water erosion. PIA should promote contour ploughing by taking help from local farmers.

At the time of field survey, it has been found that the condition of the agricultural land of the project area has been improved due to the executed work like check dams, peripheral bund/marginal bunds and ponds. Soil and water erosion has been checked upto a remarkable level. Farmers of the project area have started ploughing on their farms. These farms were not in use and lying barren few years ago. It has also came to know that water level of the area has been improved. As a matter of fact, a separate and deep Impact Assessment Study of this project area is required to know that how much agricultural production has been increased, how much soil and water erosion has been checked and how much water table increased in the district Ferozabad. The overall performance of PIA, WDT and DRDA, in district Ferozabad is found satisfactory.